



SAMSUNG

Samsung SMART CAMERA USER MANUAL

WB150/WB150F/WB151/WB152/WB152F

This user manual includes detailed usage instructions for your camera. Please read this manual thoroughly.

Click a topic

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(WB150F/WB152F only)

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Viewing photos or videos in Playback mode

Learn how to play back photos or videos and how to manage files.

Starting Playback mode

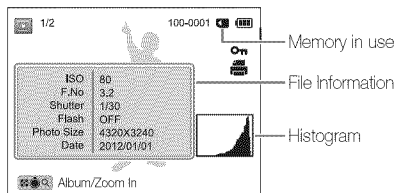
View photos or play videos stored in your camera.

- 1 Press [▶].
 - The most recent file will be displayed.
 - If the camera is off, it will turn on and display the most recent file.
- 2 Press [⚡/📷] to scroll through files.
 - Press and hold [⚡/📷] to scroll through files quickly.



- If you want to view files stored in the internal memory, remove your memory card.
- You may not be able to edit or play back files that were captured with other cameras, due to unsupported sizes (image size, etc) or codecs. Use a computer or another device to edit or play back these files.

Photo file information

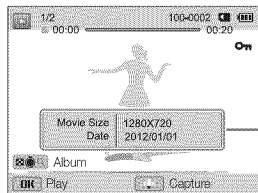


Icon	Description
1/2	Current file/Total files
100-0001	Folder name-File name
On	Protected file
Print icon	Print order has been set (DPOF)



To display file information on the screen, press [DISP].

Video file information



File Information

Icon	Description
1/2	Current file/Total files
100-0002	Folder name-File name
00:00	Current playback time
00:20	Video length
On	Protected file

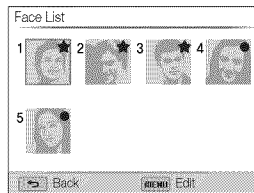


To display file information on the screen, press **[DISP]**.

Ranking your favorite faces

You can rank your favorite faces. The favorite face feature is available only when you insert a memory card into the camera.

- 1 In Playback mode, press **[MENU]**.
- 2 Select **Face List**.



- 3 Press **[MENU]**.
- 4 Select **Edit Ranking**.
- 5 Select a face, and then press **[OK]**.
- 6 Press **[F/☺]** to change the ranking of the face, and then press **[↵]**.

Deleting favorite faces

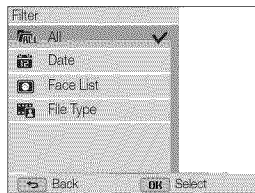
You can delete your favorite faces. The favorite face feature is available only when you insert a memory card into the camera.

- 1 In Playback mode, press **[MENU]**.
- 2 Select **Face List**.
- 3 Press **[MENU]**.
- 4 Select **Cancel My Star**.
- 5 Select a face, and then press **[OK]**.
- 6 Press **[Delete]**.
- 7 When the pop-up message appears, select **Yes**.

Viewing files by category in Smart Album

View files by category, such as date, face, or file type.

- 1 In Playback mode, rotate **[Zoom]** to the left.
- 2 Press **[MENU]**.
- 3 Select **Filter** → a category.



Icon	Description
	All: View files normally.
	Date: View files by the date they were saved.
	Face List: View files by recognized faces and favorite faces. (Up to 20 people)
	File Type: View files by the file type.

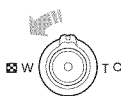
- 4 Scroll to a desired list, and then press **[OK]** to open the list.
- 5 Scroll to a desired file, and then press **[OK]** to view the file.
- 6 Rotate **[Zoom]** to the left to return to the previous view.



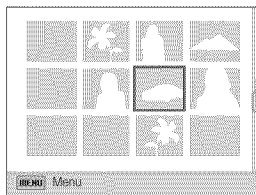
It may take some time for the camera to open Smart Album, change the category, or reorganize files.

Viewing files as thumbnails

Scan thumbnails of files.



In Playback mode, rotate **[Zoom]** to the left to view thumbnails (12 at a time). Rotate **[Zoom]** to the left once more to display more thumbnails (24 at a time). Rotate **[Zoom]** to the right to return to the previous view.



Press **[DISP/🌸/🔋/🌞]** to scroll through files.

Protecting files

Protect your files from accidental deletion.

- 1 In Playback mode, press **[MENU]**.
- 2 Select **Protect → On**.



You cannot delete or rotate a protected file.

Deleting files

Select files to delete in Playback mode.

Deleting a single file

You can select one file, and then delete it.

- 1 In Playback mode, select a file, and then press **[🗑️]**.
- 2 When the pop-up message appears, select **Yes**.



You can also delete files in Playback mode by pressing **[MENU]**, and then selecting **Delete → Delete → Yes**.

Deleting multiple files

You can select multiple files, and then delete them at once.

- 1 In Playback mode, press [].
 - When in thumbnails view, press [MENU], select **Delete** → **Select**, and then skip to step 3, or press [, select **Select**, and then skip to step 3.
- 2 When the pop-up message appears, select **Multiple Delete**.
- 3 Scroll to each file you want to delete, and then press [OK].
 - Press [OK] again to cancel your selection.
- 4 Press [].
- 5 When the pop-up message appears, select **Yes**.

Deleting all files

You can select all files, and then delete them at once.

- 1 In Playback mode, press [MENU].
 - When in thumbnails view, press [MENU], select **Delete** → **Delete All**, and then skip to step 3, or press [, select **Delete All**, and then skip to step 3.
- 2 Select **Delete** → **Delete All**.
- 3 When the pop-up message appears, select **Yes**.
 - All unprotected files are deleted.

Copying files to a memory card

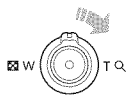
Copy files from the internal memory to a memory card.

- 1 In Playback mode, press [MENU].
- 2 Select **Copy to Card**.

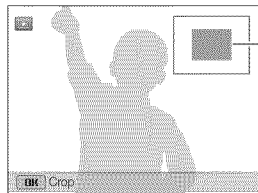
Viewing photos

Enlarge part of a photo or view photos as a slide show.

Enlarging a photo



In Playback mode, rotate **[Zoom]** to the right to enlarge a portion of the photo. Rotate **[Zoom]** to the left to zoom out.



Enlarged area

To	Description
Move the enlarged area	Press [DISP/⏏/⏏/⏏] . Press [OK] , and then select Yes . (The trimmed photo will be saved as a new file. The original photo is retained in its original form.)
Trim the enlarged photo	



When you view photos that were captured by another camera, the zoom ratio may differ.

Viewing panoramic photos

View photos captured in Live Panorama mode.

- 1 In Playback mode, press [**⚡/☺**] to scroll to a desired panoramic photo.
 - The entire panoramic photo appears on the screen.
- 2 Press [**OK**].
 - The camera automatically scrolls through the photo from left to right for a horizontal panoramic photo and from top to bottom for a vertical panoramic photo. The camera then switches to Playback mode.
 - While playing back a panoramic photo, press [**OK**] to pause or resume.
 - After you have paused the playback of a panoramic photo, press [**DISP/📷/⚡/☺**] to move the photo horizontally or vertically, depending on the direction you moved when capturing the photo.
- 3 Press [**↩**] to return to Playback mode.



The camera automatically scrolls through the panoramic photo only if the longest side of the photo is two or more times longer than the shortest side.

Playing a slide show

Apply effects and audio to a slide show of your photos. The slide show function does not work for videos.

- 1 In Playback mode, press [**MENU**].
- 2 Select **Slide Show Options**.
- 3 Select a slide show effect option.
 - Skip to step 4 to start a slide show with no effects.

* Default

Option	Description
Play Mode	Set whether or not to repeat the slide show. (One Play*, Repeat)
Interval	• Set the interval between photos. (1 sec*, 3 sec, 5 sec, 10 sec) • You must set the Effect option to Off to set the interval.
Music	Set background audio. • Set a scene change effect between photos. (Off, Calm*, Shine, Relax, Lively, Sweet)
Effect	• Select Off to cancel effects. • When you use the Effect option, the interval between photos will be set to 1 second.

4 Press [↩].

5 Select **Start Slide Show**.

6 View the slide show.

- Press [OK] to pause the slide show.
- Press [OK] again to resume the slide show.



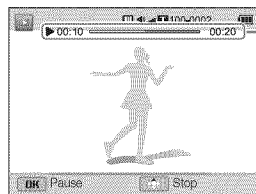
- Press [OK], and then press [⏏/⏻] to stop the slide show and return to Playback mode.
- Rotate [Zoom] to the left or right to adjust the volume level.

Playing a video

In Playback mode, you can view a video, and then capture or trim parts of the playing video. You can save the captured or trimmed segments as new files.

1 In Playback mode, select a video, and then press [OK].

2 View the video.



Current playback time/
Video length

To	Description
Scan backward	Press [⏮]. Each time you press [⏮], you change the scan speed in this order: 2X, 4X, 8X.
Pause or resume playback	Press [OK].
Scan forward	Press [⏭]. Each time you press [⏭], you change the scan speed in this order: 2X, 4X, 8X.
Adjust the volume level	Rotate [Zoom] to the left or right.

Trimming a video

- 1 In Playback mode, select a video, and then press **[MENU]**.
- 2 Select **Trim Movie**.
- 3 Press **[OK]** to start playing the video.
- 4 Press **[OK]** → **[⏏]** at the point where you want the trimming to begin.
- 5 Press **[OK]** to resume playing the video.
- 6 Press **[OK]** → **[⏏]** at the point where you want the trimming to end.
- 7 Press **[⏏]** to trim.
- 8 When the pop-up message appears, select **Yes**.



- The original video should be at least 10 seconds long.
- The camera will save the edited video as a new file and leave the original video intact.

Capturing an image from video

- 1 While viewing a video, press **[OK]** at the point where you want to capture an image.
- 2 Press **[⏏]**.



- The resolution of the captured image will be the same as the original video.
- The captured image is saved as a new file.

Editing a photo

Learn how to edit photos.

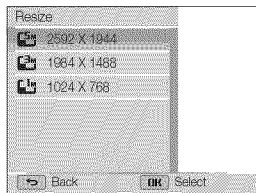


- The camera will save edited photos as new files.
- When you edit photos, the camera will automatically convert them to a lower resolution. Photos that you rotate or resize manually are not automatically converted to a lower resolution.

Resizing photos

Change the size of a photo and save it as a new file.

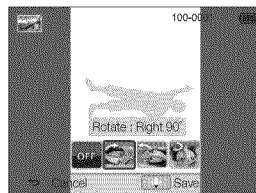
- 1 In Playback mode, select a photo, and then press **[MENU]**.
- 2 Select **Resize**.
- 3 Select an option.



- Available resize options differ depending on the original size of the photo.

Rotating a photo

- 1 Rotate the mode dial to .
- 2 Select .
- 3 Rotate **[Zoom]** to the left, and then select a photo.
- 4 Select **Rotate** → an option.
- 5 Press **[✓]** to save.

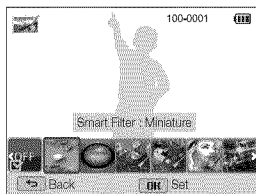


- The camera will overwrite the original file.
- In Playback mode, press **[MENU]**, and then select **Rotate** to rotate a photo.

Applying Smart Filter effects

Apply special effects to your photos.

- 1 Rotate the mode dial to .
- 2 Select .
- 3 Rotate [Zoom] to the left, and then select a photo.
- 4 Select **Smart Filter** → an option.



Option	Description
Normal	No effect
Miniature	Apply a tilt-shift effect to make the subject appear in miniature.
Vignetting	Apply the retro-looking colors, high contrast, and strong vignette effect of Lomo cameras.

Option	Description
Ink Painting	Apply a watercolor painting effect.
Oil Painting	Apply an oil painting effect.
Cartoon	Apply a cartoon painting effect.
Cross Filter	Add lines that radiate outward from bright objects to imitate the visual effect of a cross filter.
Sketch	Apply a pen sketch effect.
Soft Focus	Hide facial imperfections or apply dreamy effects.
Fish-eye	Distort close objects to imitate the visual effect of a fisheye lens.
Old Film	Apply a vintage film effect.
Half Tone Dot	Apply a halftone effect.
Classic	Apply a black and white effect.
Retro	Apply a sepia tone effect.
Zooming Shot	Blur the edges of a photo to emphasize the subjects in the center.

- 5 Press [

Adjusting your photos

Learn how to adjust the brightness, contrast, or saturation or how to correct the red-eye effect. If the center of a photo is dark, you can adjust it to be brighter. The camera will save an edited photo as a new file, but may convert it to a lower resolution.



- You can adjust brightness, contrast, and saturation and apply Smart Filter effects at the same time.
- You cannot apply the ACB, Face Retouch, and Red-eye Fix effects at the same time.

Adjusting brightness, contrast, or saturation

- 1 Rotate the mode dial to .
- 2 Select .
- 3 Rotate [Zoom] to the left, and then select a photo.

- 4 Select an adjusting option.

Icon	Description
	Brightness
	Contrast
	Saturation

- 5 Press [>] to adjust the option.
- 6 Press [OK].
- 7 Press [>] to save.

Adjusting dark subjects (ACB)

- 1 Rotate the mode dial to .
- 2 Select .
- 3 Rotate [Zoom] to the left, and then select a photo.
- 4 Select ACB.
- 5 Press [>] to save.

Retouching faces

- 1 Rotate the mode dial to .
- 2 Select .
- 3 Rotate [Zoom] to the left, and then select a photo.
- 4 Select **Face Retouch**.
- 5 Press [>] to adjust the option.
 - As the number increases, the skin tone becomes brighter and smoother.
- 6 Press [>] to save.

Removing red-eye

- 1 Rotate the mode dial to .
- 2 Select .
- 3 Rotate [Zoom] to the left, and then select a photo.
- 4 Select **Red-eye Fix**.
- 5 Press [>] to save.

Creating a print order (DPOF)

Select photos to print and save print options in the Digital Print Order Format (DPOF). This information is saved in the MISC folder on your memory card for convenient printing on DPOF-compatible printers.

- 1 In Playback mode, select a photo you want to print, and then press [MENU].
- 2 Select **DPOF**.
- 3 Press [DISP/>] to select the number of copies, and then press [OK].

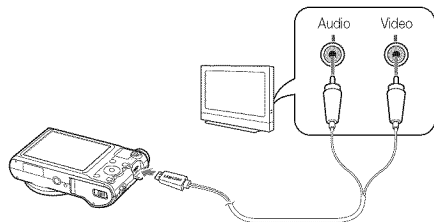


- You can take the memory card to a print shop that supports DPOF (Digital Print Order Format) or you can print photos directly through a DPOF-compatible printer at home.
- Photos with dimensions that are wider than the paper may be cut off on the left and right edges. Ensure that your photo dimensions are compatible with the paper you select.
- You cannot set DPOF options for photos stored in the internal memory.
- If you specify the print size, you can print photos only with DPOF 1.1-compatible printers.

Viewing files on a TV

Play back photos or videos by connecting your camera to a TV with the A/V cable.

- 1 Rotate the mode dial to .
- 2 Select **Connectivity** → **Video Out**.
- 3 Select the video signal output for your country or region.
(p. 123)
- 4 Turn off your camera and TV.
- 5 Connect your camera to your TV with the A/V cable.
- 6 Turn on your TV, and then select the A/V video source with the TV remote control.
- 7 Turn on your camera.
 - The camera automatically enters into Playback mode when you connect it to a TV.
- 8 View photos or play videos using the camera buttons.



- Depending on the TV model, you may see some digital noise or part of an image may not appear.
- Images may not be centered on the TV screen depending on your TV settings.

Transferring files to your Windows computer

Transfer files to your Windows computer, edit them with Intelli-studio, and upload them to the web.

Requirements

Item	Requirements
CPU	Intel® Pentium®4 3.2 GHz or higher/ AMD Athlon™ FX 2.6 GHz or higher
RAM	Minimum 512 MB RAM (1 GB or more recommended)
OS*	Windows XP SP2, Windows Vista, or Windows 7
Hard disk capacity	250 MB or more (1 GB and above recommended)
Others	• CD-ROM drive • 1024 X 768 pixels, 16-bit color display compatible monitor (1280 X 1024 pixels, 32-bit color display recommended) • USB 2.0 port • nVIDIA Geforce 7600GT or higher/ ATI X1600 series or higher • Microsoft DirectX 9.0c or higher

* A 32-bit version of Intelli-studio will be installed—even on 64-bit editions of Windows XP, Windows Vista, and Windows 7.



- The requirements are recommendation only. Intelli-studio may not work properly even when the computer meets the requirements, depending on the condition of your computer.
- If your computer does not meet the requirements, videos may not play correctly or it may take longer to edit videos.
- Install DirectX 9.0c or later before you use Intelli-studio.
- Your computer must be running Windows XP, Windows Vista, or Windows 7 for you to connect the camera as a removable disk.



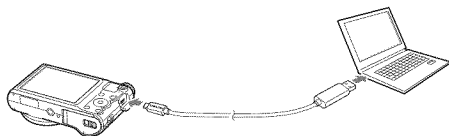
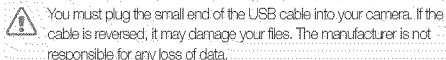
The manufacturer is not responsible for any damage that results from using unqualified computers such as a computer you assembled yourself.

Transferring files with Intelli-studio

You can download Intelli-studio from the linked webpage and install it on your computer. When you connect the camera to a computer with Intelli-studio installed, the program will launch automatically.

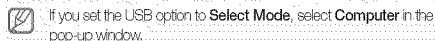


- 1 Rotate the mode dial to .
- 2 Select **Connectivity** → **PC Software** → **On**.
- 3 Turn off the camera.
- 4 Connect the camera to your computer with the USB cable.



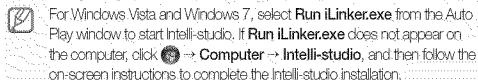
5 Turn on the camera.

- When the Intelli-studio installation pop-up appears on the computer screen, follow the on-screen instructions to complete the installation.
- Once the Intelli-studio is installed on your computer, the computer recognizes the camera and launches the Intelli-studio automatically.



6 Select a destination folder on your computer, and then select **Yes**.

- New files stored on the camera will automatically transfer to the selected folder.
- If your camera has no new files, the pop-up window for saving new files will not appear.

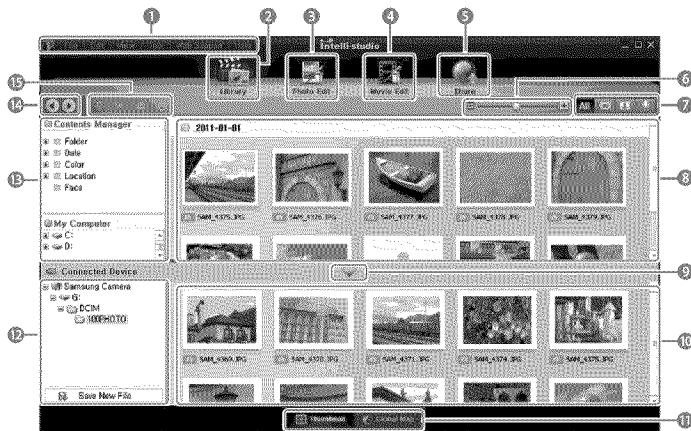


Using Intelli-studio

Intelli-studio allows you to play back and edit files. For details, select **Help** → **Help** from the program toolbar.



- You can update the firmware of your camera by selecting **Web Support** → **Upgrade firmware for the connected device** from the program toolbar.
- You cannot edit files directly on the camera. Transfer files to a folder on your computer before editing.
- Intelli-studio supports the following formats:
 - Videos: MP4 (Video: H.264, Audio: AAC), WMV (WMV 7/8/9), AVI (MJPEG)
 - Photos: JPG, GIF, BMP, PNG, TIFF



No.	Description
1	Open menus.
2	Display files in the selected folder.
3	Switch to the Photo edit mode.
4	Switch to the Video edit mode.
5	Switch to the Sharing mode (to send files by email or upload files to websites, such as Flickr or YouTube).
6	Enlarge or reduce the thumbnails in the list.
7	Select a file type.
8	View files in the selected folder on your computer.
9	Show or hide files on the connected camera.
10	View files in the selected folder on the camera.
11	View files as thumbnails or on a map.
12	Browse folders stored on the camera.
13	Browse folders stored on your computer.
14	Move to the previous or next folder.
15	Print files, view files on a map, store files in My Folder, or register faces.

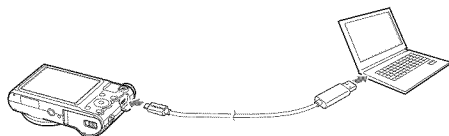
Transferring files by connecting the camera as a removable disk

Connect the camera to your computer as a removable disk.

- 1 Rotate the mode dial to .
- 2 Select **Connectivity** → **PC Software** → **Off**.
- 3 Turn off the camera.
- 4 Connect the camera to your computer with the USB cable.



You must plug the small end of the USB cable into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.



5 Turn on the camera.

- The computer recognizes the camera automatically.



If you set the USB option to **Select Mode**, select **Computer** in the pop-up window.

6 On your computer, select **My Computer** → **Removable Disk** → **DCIM** → **100PHOTO**.

7 Drag or save files to your computer.

Disconnecting the camera (for Windows XP)

With Windows Vista and Windows 7, the methods for disconnecting the camera are similar.

1 Verify that the status lamp is not blinking.

- The status lamp blinks when transferring files. Wait until it stops.

2 Click on the tool bar at the bottom right of your computer screen.



3 Click the pop-up message.

4 Click the message box that indicates the camera can be removed safely.

5 Remove the USB cable.



The camera may not disconnect safely while Intelli-studio is running. End the program before disconnecting the camera.

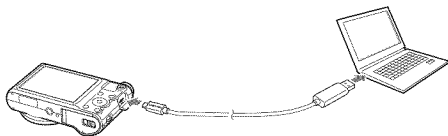
Transferring files to your Mac computer

When you connect the camera to a Macintosh computer, the computer will automatically recognize the device. You can transfer files directly from the camera to the computer without installing any programs.

 Mac OS 10.4 or later is supported.

- 1 Connect your camera to a Macintosh computer with the USB cable.

 You must plug the small end of the USB cable into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.



- 2 Turn on the camera.
 - The computer recognizes the camera automatically and displays a removable disk icon.

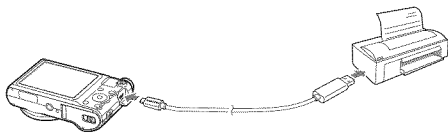
 If you set the USB option to **Select Mode**, select **Computer** in the pop-up window.

- 3 Double-click the removable disk icon.
- 4 Drag or save files to your computer.

Printing photos with a PictBridge photo printer

Print photos with a PictBridge-compatible printer by connecting your camera directly to the printer.

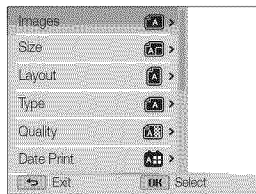
- 1 Rotate the mode dial to .
- 2 Select **Connectivity** → **USB** → **Printer**.
- 3 Turn on the printer, and then connect your camera to the printer with the USB cable.



- 4 If the camera is off, press **[POWER]** or **[▶]** to turn it on.
 - The printer recognizes the camera automatically.
- 5 Press **[/☺]** to select a file to print.
 - Press **[MENU]** to set printing options.
See "Configuring print settings."
- 6 Press **[OK]** to print.
 - Printing starts. Press **[OK]** to cancel printing.

Configuring print settings

Press **[MENU]** to configure print settings.



Option	Description
Images	Select whether to print the current photo or all photos.
Size	Set the print size.
Layout	Set the number of photos to be printed on a single sheet of paper.
Type	Set the type of paper.
Quality	Set the print quality.
Date Print	Set to print the date.
File Name	Set to print the file name.
Reset	Reset settings to their default values.



Some options may not be supported by some printers.

Wireless network (WB150F/WB152F only)

Learn how to connect to wireless local area networks (WLANs) and use functions.

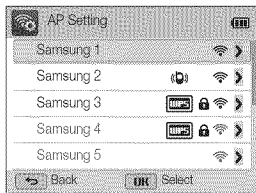
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Connecting to a WLAN and configuring network settings

Learn to connect via an access point (AP) when you are in a range of a WLAN. You can also configure network settings.

Connecting to a WLAN

- 1 Rotate the mode dial to **Wi-Fi**.
- 2 Select , , , , or .
- 3 Press **[MENU]**, and then select **AP Setting**.
 - In some modes, press **[MENU]** or follow the on-screen instructions until the AP Setting screen appears.
 - The camera automatically searches for available AP devices.
- 4 Select an AP.



- Select **WPS PBC** to connect to a WPS AP.
- Select **Refresh** to refresh connectable APs.
- Select **Add wireless network** to add an AP manually.

Icon	Description
	Ad hoc AP
	Secured AP
	WPS AP
	Signal strength
	Press [WPS] to open AP setting options

- When you select a secured AP, a pop-up window appears. Enter the required passwords to connect to the WLAN. For information about entering text, refer to "Entering text". (p. 103)
- When a login page appears, refer to "Using the login browser". (p. 101)
- When you select an unsecured AP, the camera will connect to the WLAN.
- If you select a WPS profile supported AP, select **WPS PIN**, and then enter a PIN on the AP device. You can also connect to a WPS profile supported AP by selecting **WPS PBC** on the camera, and then pushing the **WPS** button on the AP device.

Setting network options

- 1 In the AP Setting screen, move to an AP, and then press [📶].
- 2 Select each option, and then enter the required information.

Option	Description
Authentication	Select a network authentication type.
Data Encryption	Select an encryption type.
Network Password	Enter the network password.
IP Setting	Set the IP address manually.

Manually setting the IP address

- 1 In the AP Setting screen, move to an AP, and then press [📶].
- 2 Select **IP Setting** → **Manual**.
- 3 Select each option, and then enter the required information.

Option	Description
IP	Enter the static IP address.
Subnet Mask	Enter the subnet mask.
Gateway	Enter the gateway.
DNS Server	Enter the DNS address.

Using the login browser

You can enter your login information via the login browser when connecting to some APs, sharing sites, or cloud servers.

Button	Description
[DISP/📶/🔌/📶]	Move to an item or scroll the page.
[OK]	Select an item.
[MENU]	Access the following options: • Previous Page: Move to the previous page. • Next Page: Move to the next page. • Reload: Reload the page. • Stop: Stop loading the page. • Exit: Close the login browser.
[🔍]	Close the login browser.



- You cannot select some items depending on the page you connected to. This does not indicate a malfunction.
- The login browser may not close automatically after you log into some pages. If this occurs, close the login browser by pressing [🔍], and then proceed with the desired operation.
- It may take longer to load the login page due to the page size or network speed. If this occurs, wait until the login information input window appears.

Network connection tips

- The quality of the network connection will be determined by the AP.
- The further the distance between your camera and the AP, the longer it will take to connect to the network.
- If a nearby device is using the same radio frequency signal as your camera, it may interrupt your connection.
- If your AP name is not in English, the camera may not be able to locate the device or the name may appear incorrectly.
- For network settings or a password, contact your network administrator or network service provider.
- If a WLAN requires authentication from the service provider, you may not be able to connect to it. To connect the WLAN, contact your network service provider.
- Depending on the encryption type, the number of digits in the password may differ.
- A WLAN connection may not be possible in all surroundings.
- The camera may display a WLAN enabled printer on the AP List. You cannot connect to a network via a printer.
- You cannot connect your camera to a network and a TV simultaneously. Also, you cannot view photos or videos on a TV while connected to a network.
- Connecting to a network may incur additional charges. Costs will vary based on the conditions of your contract.
- If you cannot connect to a WLAN, try another AP from the available AP list.
- You can also connect to free WLANs in some foreign countries.
- A login page may appear when you select free WLANs provided by some network service providers. Enter your ID and password to connect to the WLAN. For information about registering or the service, contact the network service providers.
- Be cautious when you enter personal information for an AP connection. Do not enter any payment or credit card information on your camera. The manufacturer is not liable for any problem caused by entering such information.
- Available network connections may differ by country.
- The WLAN feature of your camera must comply with radio transmission laws in your region. To ensure compliance, use the WLAN feature only in the country where you purchased the camera.
- The process for adjusting network settings may differ, depending on network conditions.
- Do not access a network that you are not authorized to use.
- Before you connect to a network, ensure your battery is fully charged.
- When a DHCP server is not available you must make an autoip.txt file and copy it to the inserted memory card to connect to the network using Auto IP.

Entering text

Learn how to enter text. The icons in the table below let you move the cursor, change the case, etc. Press **[DISP/↵/⚡/☺]** to move to a desired key, and then press **[OK]** to enter the key.



Icon	Description
	Delete the last letter.
	Move the cursor.
	In ABC mode, change the case.
	Enter ".com".
	Switch to Symbol mode.

Icon	Description
	Switch to ABC mode.
	Enter a space.
	Save the displayed text.
	View the entering text guide.



- You can use only the English alphabet, regardless of the display language.
- To move to **OK** directly, press .
- You can enter up to 64 characters.

Using photo or video sharing websites

Upload your photos or videos to file sharing websites. Available websites will be displayed on your camera.

Accessing a website

- 1 Rotate the mode dial to **Wi-Fi**.
- 2 Select .
- 3 Select a website.
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 100)
- 4 Enter your ID and password, and then select **Login**.
 - For information about entering text, refer to "Entering text". (p. 103)
 - To select an ID from the list, select ▼ → an ID.
 - If you have previously logged in to the website, you may be logged in automatically.



You must have an existing account on the file sharing website to use this feature.

Uploading photos or videos

- 1 Access the website with your camera.
- 2 Scroll to the files you want to upload, and then press **[OK]**.
 - You can select up to 20 files. The total size must be 10 MB or less.
- 3 Select **OK**.
 - If you connected to the Facebook, select **OK** → **Send**.
 - If you connected to the Facebook, you can enter your comments by selecting the **Comment** box. For information about entering text, refer to "Entering text". (p. 103)



- The maximum photo resolution you can upload is 2M, and the longest video you can upload is 30 seconds at **QVGA** resolution or a video recorded using **220**. If the selected photo resolution is higher than 2M, it will be automatically resized to a lower resolution.
- The method of uploading photos or videos may differ depending on the selected website.
- If you cannot access a website because of firewall or user authentication settings, contact your network administrator or network service provider.
- Uploaded photos or videos may be automatically titled with the date they were captured.
- The speed of your internet connection may affect how quickly photos upload or web pages open.
- When there are no files in the camera memory, you cannot use this feature.
- You can also upload photos or videos to file sharing websites in Playback mode by pressing **[MENU]**, and then selecting **Share(Wi-Fi)** → a desired website.

Sending photos or videos via email

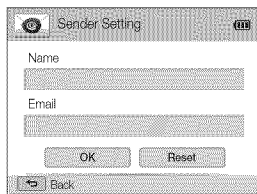
You can change settings in the email menu, and send photos or videos stored on the camera via email.

Changing email settings

In the email menu, you can change settings for storing your information. You can also set or change the email password. For information about entering text, refer to "Entering text". (p. 103)

Storing your information

- 1 Rotate the mode dial to **Wi-Fi**.
- 2 Select .
- 3 Press **[MENU]**.
- 4 Select **Sender Setting**.
- 5 Select the **Name** box, enter your name, and then select **OK**.



- 6 Select the **Email** box, enter your email address, and then select **OK**.
- 7 Select **OK** to save your changes.
 - To delete your information, select **Reset**.

Setting an email password

- 1 Rotate the mode dial to **Wi-Fi**.
- 2 Select .
- 3 Press **[MENU]**.
- 4 Select **Setting Password** → **On**.
 - To deactivate the password, select **Off**.
- 5 When the pop-up appears, press **[OK]**.
 - The pop-up disappears automatically even if you do not press **[OK]**.
- 6 Enter a 4-digit password.
- 7 Enter the password again.
- 8 When the pop-up appears, press **[OK]**.
 - The pop-up disappears automatically even if you do not press **[OK]**.

Changing the email password

- 1 Rotate the mode dial to **Wi-Fi**.
- 2 Select .
- 3 Press **[MENU]**.
- 4 Select **Change Password**.
- 5 Enter your current 4-digit password.
- 6 Enter a new 4-digit password.
- 7 Enter the new password again.
- 8 When the pop-up appears, press **[OK]**.
 - The pop-up disappears automatically even if you do not press **[OK]**.

Sending photos or videos via email

You can send photos or videos stored on the camera via email.
For information about entering text, refer to "Entering text". (p. 103)

- 1 Rotate the mode dial to **Wi-Fi**.
- 2 Select .
- 3 Select the **Name(Email)** box, enter your email address, and then select **OK**.
 - If you have previously saved your information, it will be inserted automatically. (p. 106)
- 4 Select the **Receiver** box, enter an email address, and then select **OK**.
 - To use an address from the list of previous recipients, select ▼ → an address.
 - Select **+** to add additional recipients. You can input up to 30 recipients.
 - Select **X** to delete an address from the list.
- 5 Select **OK**.

- 6 Scroll to files to send, and then press **[OK]**.
 - You can select up to 20 files. The total size must be 10 MB or less.
- 7 Select **OK**.
- 8 Select the **Comment** box, enter your comments, and then select **OK**.
- 9 Select **Send**.
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device and send the email.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 100)



- Even if a photo appears to have transferred successfully, errors with the recipient's email account may cause the photo to be rejected or recognized as spam.
- You may not be able to send an email if no network connection is available or if your email account settings are incorrect.
- The maximum photo resolution you can send is 2M and the longest video you can upload is 30 seconds at **OVGA** resolution or a video recorded using **320x240**. If the selected photo resolution is higher than 2M, it will be automatically resized to a lower resolution.
- If you cannot send an email because of firewall or user authentication settings, contact your network administrator or network service provider.
- When there are no files in the camera memory, you cannot use this feature.
- You can also send an email in Playback mode by pressing **[MENU]**, and then selecting **Share(Wi-Fi) → Email**.

Sending photos or videos to a smart phone

The camera connects to a smart phone that supports the MobileLink feature via a WLAN. You can easily send photos or videos to your smart phone.

-  • The MobileLink feature is supported by Galaxy S smart phones with the Android 2.2 OS or higher. If your smart phone uses the Android 2.1 OS, upgrade your smart phone to Android 2.2 or higher. This feature is also supported by the 7 and 10.1 inch Galaxy Tab. This feature may be supported by other devices with Android 2.2 or higher, but Samsung makes no guarantee of its functionality.
- You should install the MobileLink application on your phone or device before using this feature. You can download the application from Samsung Apps or Android market.
- When there are no files in the camera memory, you cannot use this feature.
- You can share up to 1,000 photos or videos.

- 1 On the camera, rotate the mode dial to **Wi-Fi**.
- 2 On the camera, select .
 - If the pop-up message that prompts you to download the application appears, select **OK**.
- 3 On the smart phone, turn on the MobileLink application.
 - The smart phone will start searching for and then connect to the camera automatically.
 - The smart phone can connect to only one camera at a time.
- 4 On the camera, select **OK**.
- 5 On the smart phone, select files to send from the camera to the smart phone.
- 6 On the smart phone, select **Copy**.
 - The camera will send the files.

Using a smart phone as a remote shutter release

The camera connects to a smart phone via a WLAN. Use the smart phone as a remote shutter release with the Remote Viewfinder feature. The captured photo will display on the smart phone.

- The Remote Viewfinder feature is supported by Galaxy S smart phones with the Android 2.2 OS or higher. If your smart phone uses the Android 2.1 OS, upgrade your smart phone to Android 2.2 or higher. This feature is also supported by the 7 and 10.1 inch Galaxy Tab. This feature may be supported by other devices with Android 2.2 or higher, but Samsung makes no guarantee of its functionality.
- You should install the Remote Viewfinder application on your phone or device before using this feature. You can download the application from Samsung Apps or Android market.

- 1 On the camera, rotate the mode dial to **Wi-Fi**.
- 2 On the camera, select .
 - If the pop-up message that prompts you to download the application appears, select **OK**.
- 3 On the smart phone, turn on the Remote Viewfinder application.
- 4 On the smart phone, select your camera.
 - The smart phone will connect to the camera automatically.
 - The smart phone can connect to only one camera at a time.

- 5 On the smart phone, set the following shooting options.

Icon	Description
	Flash option
	Timer option
	Photo size

- While using this feature, some buttons are not available on your camera.
- The zoom button and the shutter button on your smart phone will not function when using this feature.
- Remote Viewfinder mode supports the  and  photo sizes only.

6 On the smart phone, touch and hold to focus.

- The focus is automatically set to multi-AF.

7 Release to capture the photo.

- The photo will be saved in your camera.
- Touch the photo in the bottom of the screen to save it to the smart phone. The photo will be resized to 640 X 360.



- When you use this feature, the ideal distance between the camera and the smart phone may vary, depending on your surroundings.
- The smart phone must be within 23 ft/7 m of the camera to use this feature.
- It will take some time to capture the photo after you release  on the smart phone.
- The Remote Viewfinder function will deactivate when:
 - there is an incoming call on the smart phone
 - either the camera or the smart phone turn off
 - the memory is full
 - either device loses its connection to the WLAN
 - the Wi-Fi connection is poor or unstable
- To rotate the scene by rotating the smart phone, turn on the auto-rotation feature on your smart phone.

Uploading photos to a cloud server

You can upload your photos to SkyDrive. To upload photos, you must visit the Microsoft website and register before connecting your camera.

1 Rotate the mode dial to **Wi-Fi**.

2 Select .

3 Select **SkyDrive**.

- If the pop-up message that prompts you to create an account appears, select **OK**.
- The camera will attempt to connect to a WLAN via the most recently connected AP.
- If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 100)

4 Login with your ID and password.

- For information about entering text, refer to "Entering text". (p. 103)
- If you connected to SkyDrive, refer to "Using the login browser". (p. 101)

5 Scroll to the photos you want to upload, and then press **[OK]**.

6 Select **OK**.



- You can also upload photos to a cloud server in Playback mode by pressing **[MENU]**, and then selecting **Share(Wi-Fi)** → a cloud server.
- When there are no photos in the camera memory, you cannot use this feature.

Using Auto Backup to send photos or videos

You can send photos or videos that you captured with the camera to a PC wirelessly. The Auto Backup feature works only with the Windows OS.

Installing the program for Auto Backup on your PC

- 1 Install Intelli-studio on the PC. (p. 93)
- 2 Connect the camera to the PC with the USB cable.
- 3 Click **OK** on the pop-up window.
 - The Auto Backup program is installed on the PC. Follow the on-screen instructions to complete the installation.
- 4 Remove the USB cable.
- 5 Connect the camera to the PC again with the USB cable.
 - The camera stores information about the PC, so that the camera can send files to the PC.



Before installing the program, ensure that the PC is connected to a network.
If no internet connection is available, you must install the program from the provided CD.

Sending photos or videos to a PC

- 1 Rotate the mode dial to **Wi-Fi**.
- 2 Select .
 - If the guide message appears, press **[OK]**.
- 3 Press **[MENU]** to set options.
 - To turn off your PC automatically after the transfer is complete, select **Shut down PC after backup** → **On**.
- 4 Press **[OK]** to start the backup.
 - To cancel sending, press **[OK]**.
 - You cannot select individual files to backup. This function backs up only new files on the camera.
 - The backup's progress will be shown on the PC monitor.
 - When the transfer is completed, the camera will turn off automatically in approximately 30 seconds. Select **Cancel** to return to the previous screen and prevent the camera from turning off automatically.

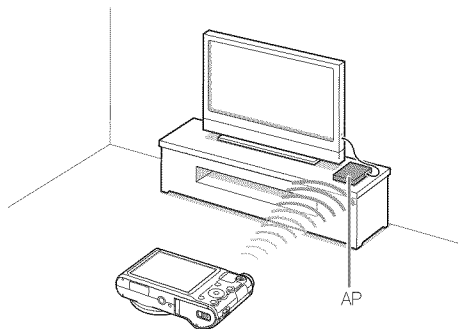


- If the PC supports the Wake on LAN (WOL) feature, you can turn on the PC automatically by searching for the PC from your camera. (p. 118)
- When you connect the camera to the WLAN, select the AP that is connected to the PC.
- The camera will search for available access points even if you are connecting to the same access point again.
- If you turn off the camera or remove the battery while sending files, the file transfer will be interrupted.
- While you are using this feature, only **[POWER]** is available on your camera.
- You can connect only one camera to the PC at a time for sending files.
- The backup may be canceled due to network conditions.
- Photos or videos can be sent to a PC one time only. Files cannot be sent again even if you reconnect your camera to another PC.
- When there are no files in the camera memory, you cannot use this feature.
- You must turn off Windows Firewall and any other firewalls before using this feature.
- You can send up to 1,000 files.
- On the PC software, the server name must be entered in the Latin alphabet and can contain no more than 48 characters.

Viewing photos or videos on a TV Link-enabled TV

TV Link is a technology for sharing media files between a camera and TV connected to the same AP device. With this technology, you can view your photos or videos on a widescreen TV.

- 1 Rotate the mode dial to **Wi-Fi**.
- 2 Select 
 - If the guide message appears, press **[OK]**.
 - The camera will automatically attempt to connect to a WLAN via the most recently connected AP device.
 - If the camera has not previously been connected to a WLAN, it will search for available AP devices. (p. 100)
- 3 Connect your TV to a wireless network via an AP device.
 - Refer to your TV's user manual for more information.
- 4 On the TV, search for the camera and browse the shared photos or videos.
 - For information about searching for the camera and browsing the photos or videos on the TV, refer to the TV user manual.
 - Videos may not play smoothly depending on the type of TV or network condition. If this happens, re-record the video in **VGA** or **OVGA** quality and play it again. If videos do not play smoothly on your TV over the wireless connection, try connecting the camera to the TV with an A/V cable.





- You can share up to 1,000 photos or videos.
- On a TV screen, you can view only photos or videos captured with your camera.
- The range of the wireless connection between your camera and a TV may vary depending on the specifications of the AP.
- If the camera is connected to 2 TVs, playback may be slower.
- Photos or videos will be shared in their original sizes.
- You can use this feature only with TV Link-enabled TVs.
- Shared photos or videos will not be stored on the TV, but they can be stored in the camera to meet the TV's specifications.
- Transferring photos or videos to the TV may take some time depending on the network connection, the number of files to be shared, or sizes of the files.
- If you power off the camera abnormally while viewing photos or videos on a TV (for example, by removing the battery), the TV considers the camera to still be connected.
- The order of photos or videos on the camera may be different than on the TV.
- Depending on the number of photos or videos you want to share, it may take some time to load your photos or videos and complete the initial set-up process.
- While viewing photos or videos on the TV, continuously using the TV remote or performing additional operations on the TV may prevent this feature from working properly.
- If you reorder or sort files on the camera while viewing them on a TV, you must repeat the initial set-up process to update the list of files on the TV.
- When there are no files in the camera memory, you cannot use this feature.

Sending photos using Wi-Fi Direct

When the camera connects via a WLAN to a device that supports the Wi-Fi Direct function, you can send photos to the device. This feature may not be supported on some devices.

- 1 On the device, turn on the Wi-Fi Direct option.
- 2 On the camera, in Playback mode, scroll to a photo.
- 3 Press **[MENU]**, and then select **Share(Wi-Fi)** → **Wi-Fi Direct**.
 - When in thumbnails view, you can select multiple photos by scrolling to thumbnails, and then pressing **[OK]**. Select **OK** when you are finished selecting photos.
- 4 Select the device from the camera's list of AP devices.
 - You can also select your camera from the device's list of AP devices.
- 5 On the device, allow the camera to connect to the device.
 - The photo will be sent to the device.



- When there are no photos in the camera memory, you cannot use this feature.
- If you cancel the connection attempt before it is complete, the camera may not be able to reconnect to the device. In this case, update your device with the latest firmware.

About the Wakeup on LAN (WOL) feature

With the WOL feature, you can automatically turn on or wake up a PC with your camera. This feature has been available for Samsung desktop PCs for the last 5 years (not available for all-in-one PCs).

 Any changes to your PC's BIOS settings other than the ones described below may damage your PC. The manufacturer is not responsible for damage caused by your changing your PC's BIOS settings.



Setting the PC to wake up from sleep mode

- 1 Click **Start**, and then open the **Control Panel**.
- 2 Configure the network connection.
 - Windows 7:
Click **Network and Internet** → **Network and Sharing Center** → **Change adapter settings**.
 - Windows Vista:
Click **Network and Internet** → **Network and Sharing Center** → **Manage network connections**.
 - Windows XP:
Click **Network and Internet Connection** → **Network Connection**.
- 3 Right click **Local Area**, and then click **Properties**.
- 4 Click **Configure** → the **Power manage** tab → **Allow this device to wake the computer**.
- 5 Click **OK**.
- 6 Restart the PC.



Setting the PC to turn on

- 1 Turn on the PC, and then press F2 while the PC is booting.
 - The BIOS setting menu will appear.
- 2 Select **Advanced** tab → **Power management Setup**.
- 3 Select **Resume on PME** → **Enabled**.
- 4 Press F10 to save your changes, and then continue booting.
- 5 Click **Start**, and then open the **Control Panel**.
- 6 Configure the network connection.
 - Windows 7:
Click **Network and Internet** → **Network and Sharing Center** → **Change adapter settings**.
 - Windows Vista:
Click **Network and Internet** → **Network and Sharing Center** → **Manage network connections**.
 - Windows XP:
Click **Network and Internet Connection** → **Network Connection**.
- 7 Select the drivers for the network adapter.
- 8 Click the **Advanced** tab, and then set the WOL menus.
 -  You cannot use this feature across a firewall or if a security program has been installed.
 - To turn on the PC with the WOL feature, the PC must have an active connection to the LAN. Ensure that the indicator light on the PC's LAN port is on indicating that the LAN connection is active.
 - Depending on your PC model, the camera may only be able to wake the PC.
 - Depending on your PC's OS or drivers, the names of the WOL setting menu may vary.
 - examples of setting menu names: Enable PME, Wake on LAN, etc.
 - examples of setting menu values: Enable, Magic packet, etc.

Settings

Refer to options to configure your camera's settings.

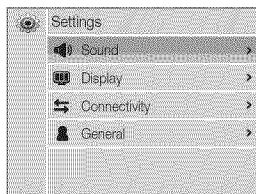
Settings menu	121
Accessing the settings menu	121
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Settings menu

Learn to configure your camera's settings.

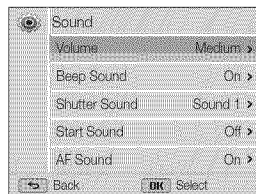
Accessing the settings menu

- 1 Rotate the mode dial to .
- 2 Select a menu.

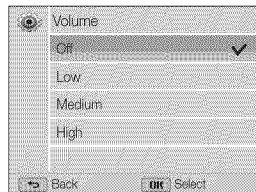


Option	Description
	Sound: Set various camera sounds and the volume. (p. 122)
	Display: Customize the display settings. (p. 122)
	Connectivity: Set the connection options. (p. 123)
	General: Change the settings for the camera system such as memory format and default file name. (p. 124)

- 3 Select an item.



- 4 Select an option.



- 5 Press [

Sound

* Default

Item	Description
Volume	Set the volume of all sounds. (Off, Low, Medium*, High)
Beep Sound	Set to emit a sound when you press the buttons or switch modes. (Off, On*)
Shutter Sound	Set the sound the camera emits when you press the shutter button. (Off, Sound 1*, Sound 2, Sound 3)
Start Sound	Set the sound the camera emits when you turn on your camera. (Off*, Star Flight, Laser Show, Cloud)
AF Sound	Set to emit a sound when you half-press the shutter button. (Off, On*)

Display

* Default

Item	Description
Start Image	Set a start image to display when the camera turns on. • Off*: Display no start image. • Logo: Display a default image stored in the internal memory. • User Image: Select User Image from the photos you captured in the memory.  • The camera will save only one User Image in the internal memory at a time. • If you select a new photo as a User Image or reset your camera, the camera will delete the current image.
Guide Line	Select a guide to help you compose a scene. (Off*, 3 X 3, 2 X 2, Cross, Diagonal)
Date/Time Display	Set whether or not to display the date and time on the camera's display. (Off*, On)
Help Display	Display a brief description of an option or menu. (Off, On*)

* Default

Item	Description
Display Brightness	Adjust the brightness of the screen. (Auto*, Dark, Normal, Bright)  Normal is fixed in Playback mode even if you have selected Auto .
Quick View	Set whether or not to review a captured image before returning to the Shooting mode. (Off, On*)
Power Save	If you perform no operations for 30 seconds, the camera automatically switches to Power save mode. (Off*, On)  - In Power save mode, press any button other than [POWER] to resume using the camera. - Even if you do not set the Power save mode, the screen will dim 30 seconds after the last operation to save power.

Connectivity

* Default

Item	Description
Video Out	Set the video signal output for your region. NTSC: USA, Canada, Japan, Korea, Taiwan, Mexico PAL (supports only BDGHI): Australia, Austria, Belgium, China, Denmark, England, Finland, Germany, Italy, Kuwait, Malaysia, Netherlands, New Zealand, Norway, Singapore, Spain, Sweden, Switzerland, Thailand
USB	Select the mode to use when you connect the camera to a computer or printer with a USB cable. Computer*: Connect your camera to a computer for transferring files. Printer: Connect your camera to a printer for printing files. Select Mode: Manually select the USB mode when you connect your camera to a device.
PC Software	Set Intelli-studio to launch automatically when you connect your camera to your computer. (Off, On*)

General

* Default

Item	Description
Device Information (WB150F/WB152F only)	See the Mac address and serial number of your camera.
Language	Set a language for the display text.
Time Zone	Set the time zone for your location. When you travel to another country, select Visit , and then select the appropriate time zone. (Home* , Visit)
Date/Time Set	Set the date and time.
Date Type	Set a date format: (YYYY/MM/DD, MM/DD/YYYY, DD/MM/YYYY)  The default date type may differ depending on the language selected.

* Default

Item	Description
File No.	Specify how to name files. • Reset: Set the file number to start from 0001 when you insert a new memory card, format a memory card, or delete all files. • Series*: Set the file number to resume from the previous file number when you insert a new memory card, format a memory card, or delete all files.  • The default name of the first folder is 100PHOTO and the default name of the first file is SAM_0001. • The file number increases by one, from SAM_0001 to SAM_9999, each time you take a picture. • The folder number increases by one, from 100PHOTO to 999PHOTO, each time a folder is full. • The maximum number of files that can be stored in one folder is 9,999. • The camera defines file names according to the Design rule for Camera File system (DCF) standard. If you intentionally change file names, the camera may not play back the files.

* Default

Item	Description
Imprint	Set whether or not to display the date and time on captured photos. (Off*, Date, Date & Time)  - The date and time will be displayed on the bottom right corner of the photo. - Some printer models may not print the date and time properly. - The photo will not display the date and time if: - you select Text in SCN mode - you select Live Panorama in  mode (WB150F/WB152F only) - you select  mode (WB150/WB151/WB152 only) - you select Picture in Picture in  mode
Auto Power Off	Set the camera to automatically turn off when you perform no operations for a specified period. (Off, 1 min*, 5 min, 10 min)  - Your settings will not change when you replace the battery. - The camera will not automatically turn off when the camera is connected to a computer, printer, or WLAN, and when you are playing a slide show or videos.

* Default

Item	Description
AF Lamp	Set a light to automatically turn on in dark places to help you focus. (Off, On*)
Format	Format the internal memory and the memory card. Formatting will delete all files, including protected files. (Yes, No)  Errors can occur if you use a memory card formatted by another brand of camera, a memory card reader, or a computer. Please format memory cards in the camera before using them to capture photos.
Reset	Reset menus and shooting options. Date and time, language, and video output settings will not be reset. (Yes, No)

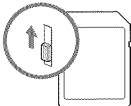
Appendixes

Get information about error messages, specifications, and maintenance.

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Error messages

When the following error messages appear, try these remedies.

Error message	Suggested remedies
Card Error	• Turn off your camera, and then turn it on again. • Remove your memory card, and then insert it again. • Format your memory card.
Card Locked	You can lock an SD, SDHC, or SDXC card to prevent files from being deleted. Unlock the card when shooting. 
Card not supported.	The inserted memory card is not supported by your camera. Insert a SD, SDHC, or SDXC memory card.
Connection failed.	• The camera cannot connect to the network using the selected access point. Select another AP and try again. • The camera has failed to connect to the other camera. Try connecting again.

Error message	Suggested remedies
DCF Full Error	File names do not match the DCF standard. Transfer the files from the memory card to your computer and format the card. Then, open the Settings menu and select File No. → Reset. (p. 124)
Device disconnected.	Network connection disconnected while transferring photos. Select a TV Link device again.
File Error	Delete the damaged file or contact a service center.
File system not supported.	Your camera does not support the FAT file structure of the inserted memory card. Format the memory card on the camera.
Initialization failed.	• Turn on TV Link enabled devices on the network. • The camera has failed to locate a TV Link-enabled device.
Invalid password.	The password for transferring files to another camera is wrong. Enter the correct password again.
Low Battery	Insert a charged battery or recharge the battery.

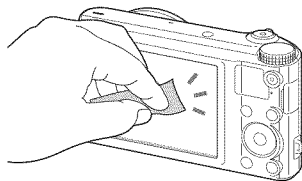
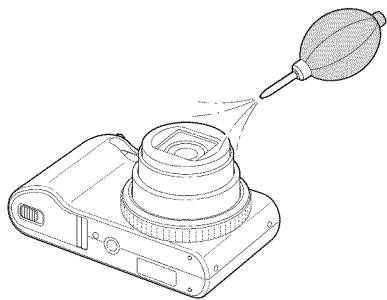
Error message	Suggested remedies
Memory Full	Delete unnecessary files or insert a new memory card.
No Image File	Capture photos or insert a memory card that contains some photos.
Photo transfer failed.	Network connection disconnected while transferring photos. Try turning on the TV Link feature again.
Photo reception failed.	The camera has failed to receive a photo from the sending camera. Ask the other person to send the file again.
Transfer failed.	- The camera has failed to send a photo to the other camera. Try sending again. - The camera has failed to send an email or transfer a photo to a TV Link device. Check the network connection and try again.

Camera maintenance

Cleaning your camera

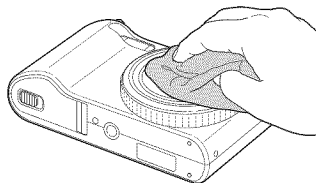
Camera lens and display

Use a blower brush to remove dust and wipe the lens gently with a soft cloth. If any dust remains, apply lens cleaning liquid to a piece of lens cleaning paper and wipe gently.



Camera body

Wipe gently with a soft, dry cloth.



- Never use benzene, thinners, or alcohol to clean the device. These solutions can damage the camera or cause it to malfunction.
- Do not press on the lens cover or use a blower brush on the lens cover.

Using or storing the camera

Inappropriate places to use or store the camera

- Avoid exposing the camera to very cold or very hot temperatures.
- Avoid using your camera in areas with extremely high humidity, or where the humidity changes drastically.
- Avoid exposing the camera to direct sunlight and storing it in hot, poorly-ventilated areas, such as in a car during summer time.
- Protect your camera and the display from impact, rough handling, and excessive vibration to avoid serious damage.
- Avoid using or storing your camera in dusty, dirty, humid, or poorly-ventilated areas to prevent damage to moving parts and internal components.
- Do not use your camera near fuels, combustibles, or flammable chemicals. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the camera or its accessories.
- Do not store the camera where there are mothballs.

Using on beaches or shores

- Protect your camera from sand and dirt when you use it on beaches or in similar areas.
- Your camera is not waterproof. Do not handle the battery, adapter, or memory card with wet hands. Operating the camera with wet hands may cause damage to your camera.

Storing for extended period of time

- When you store the camera for an extended period, place it in a sealed container with an absorbent material, such as silica gel.
- Remove the batteries from your camera when storing it for an extended period. Installed batteries may leak or corrode over time and cause serious damage to your camera.
- Over time, unused batteries will discharge and must be recharged before use.
- The present date and time can be initialized when the camera is turned on after the camera and battery have been separated for over 40 hours.

Using the camera with caution in humid environments

When you transfer the camera from a cold environment to a warm one, condensation can form on the lens or internal components of the camera. In this situation, turn off the camera and wait for at least 1 hour. If condensation forms on the memory card, remove the memory card from the camera and wait until all moisture has evaporated before reinserting it.

Other cautions

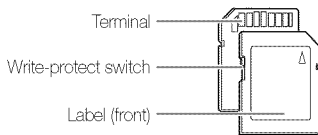
- Do not swing your camera by the strap. This may cause injury to yourself or others or damage to your camera.
- Do not paint your camera, as paint can clog moving parts and prevent proper operation.
- Turn off the camera when not using it.
- Your camera contains delicate parts. Avoid impacts to the camera.
- Protect the display from external force by keeping it in the case when not in use. Protect the camera from scratches by keeping it away from sand, sharp implements, or loose change.
- Do not expose the lens to direct sunlight, as this may discolor the image sensor or cause it to malfunction.
- Protect the lens from fingerprints and scratches. Clean the lens with a soft, clean, debris-free lens cloth.
- The camera may turn off if struck or dropped. This is to protect the memory card. Turn on the camera to use it again.
- While you use the camera, it may heat up. This is normal and should not affect your camera's lifespan or performance.
- When you use the camera in low temperatures, it may take some time to turn on, the color of the display may be changed temporarily, or after-images may appear. These conditions are not malfunctions and they will correct themselves when the camera is returned to milder temperatures.

- Paint or metal on the outside of the camera may cause allergies, itchy skin, eczema, or swelling for people with sensitive skin. If you experience any of these symptoms, stop using the camera immediately and consult a doctor.
- Do not insert foreign objects into any of your camera's compartments, slots, or access points. Damage due to improper use may not be covered by your warranty.
- Do not allow unqualified personnel to service the camera or attempt to service the camera yourself. Any damage that results from unqualified service is not covered by your warranty.

About memory cards

Supported memory cards

Your camera supports SD, SDHC, or SDXC memory cards.



You can prevent files from being deleted by using the write-protect switch on an SD, SDHC, or SDXC card. Slide the switch down to lock or slide it up to unlock. Unlock the card when capturing photos and videos.

Memory card capacity

The memory capacity may differ depending on shooting scenes or shooting conditions. These capacities are based on a 1 GB SD card:

Photo

Size	Super Fine	Fine	Normal
	144	259	381
	162	287	423
	190	343	498
	201	353	519
	246	435	630
	386	686	950
	624	1,065	1,404
	846	1,373	1,993
	1,817	2,809	3,433

Video

Size	30fps	15fps
HD 1280 X 720	Approx. 15' 20"	Approx. 29' 42"
VGA 640 X 480	Approx. 35' 54"	Approx. 67' 30"
QVGA 320 X 240	Approx. 138' 19"	Approx. 237' 41"
320 X 240 For Sharing (WB150F/WB152F only)	Approx. 138' 19"	Approx. 237' 41"

* The figures above are measured without using the zoom function. Available recording time may vary if you use the zoom. Several videos were recorded in succession to determine the total recording time.

Cautions when using memory cards

- Avoid exposing memory cards to very cold or very hot temperatures (below 0 °C/32 °F or above 40 °C/104 °F). Extreme temperatures can cause memory cards to malfunction.
- Insert a memory card in the correct direction. Inserting a memory card in the wrong direction may damage your camera and memory card.
- Do not use memory cards that have been formatted by other cameras or by a computer. Reformat the memory card with your camera.
- Turn off the camera before you insert or remove the memory card.
- Do not remove the memory card or turn off your camera while the lamp is blinking, as this may damage your data.
- When the lifespan of a memory card has expired, you cannot store any more photos on the card. Use a new memory card.
- Do not bend, drop, or subject memory cards to heavy impact or pressure.
- Avoid using or storing memory cards near strong magnetic fields.
- Avoid using or keeping memory cards in areas with high temperature, high humidity, or corrosive substances.
- Prevent memory cards from making contact with liquids, dirt, or foreign substances. If dirty, wipe the memory card clean with a soft cloth before you insert the memory card into your camera.
- Do not allow liquids, dirt, or foreign substances to come in contact with memory cards or the memory card slot. Doing so may cause memory cards or the camera to malfunction.
- When you carry a memory card, use a case to protect the card from electrostatic discharges.
- Transfer important data to other media, such as a hard disk, CD, or DVD.
- When you use the camera for an extended period, the memory card may become warm. This is normal and does not indicate a malfunction.



The manufacturer is not responsible for any loss of data.

About the battery

Use only Samsung-approved batteries.

Battery specifications

Specification	Description
Model	SLB-10A
Type	Lithium-ion battery
Cell capacity	1,030 mAh
Voltage	3.7 V
Charging time* (when the camera is switched off)	Approximately 240 min

* Charging the battery by connecting it to a computer may take longer.

Battery life

Average shooting time/ Number of photos		Test conditions (when the battery is fully charged)
Photos	Approximately 135 min/ Approximately 270 photos	The battery life was measured under the following conditions: in P mode, in darkness, Full resolution, Fine quality, OIS on. 1. Set the flash option to Fill in, take a single shot, and zoom in or out. 2. Set the flash option to Off, take a single shot, and zoom in or out. 3. Perform steps 1 and 2, waiting 30 seconds between each step. Repeat the process for 5 minutes, and then turn off the camera for 1 minute. 4. Repeat steps 1 to 3.
	Videos	Record videos at HD resolution and 30 FPS.

- The figures above are measured by Samsung's standards. Your results may differ, depending on your actual usage.
- Several videos were recorded in succession to determine the total recording time.
- When using network functions, the battery will be depleted more quickly.

Low battery message

When the battery has fully discharged, the battery icon will turn red and the **"Low Battery"** message will appear.

Notes about using the battery

- Avoid exposing batteries to very cold or very hot temperatures (below 0 °C/32 °F or above 40 °C/104 °F). Extreme temperatures can reduce the charging capacity of your batteries.
- When you use the camera for an extended period, the area around the battery chamber may become warm. This does not affect the normal use of the camera.
- Do not pull the power supply cord to disconnect the plug from the power outlet, as this may cause a fire or electric shock.
- In temperatures below 0 °C/32 °F, battery capacity and battery life may decrease.
- Battery capacity may decrease in low temperatures but will return to normal in milder temperatures.

Cautions about using the battery

Protect batteries, chargers, and memory cards from damage

Prevent batteries from making contact with metal objects, as this can create a connection between the + and – terminals of your battery and lead to temporary or permanent battery damage and may cause a fire or electric shock.

Notes about charging the battery

- If the status lamp is off, make sure that the battery is inserted correctly.
- If the camera is on while charging, the battery may not fully charge. Turn off the camera before charging the battery.
- Do not use your camera when you are charging the battery. This may cause a fire or electric shock.
- Do not pull the power supply cord to disconnect the plug from the power outlet, as this may cause a fire or electric shock.
- Let the battery charge for at least 10 minutes before turning on the camera.
- If you connect the camera to an external power source when the battery is depleted, using high energy-consuming functions will cause the camera to turn off. To use the camera normally, recharge the battery.

- If you reconnect the power cable when the battery is fully charged, the status lamp turns on for approximately 30 minutes.
- Using the flash or recording videos depletes the battery quickly. Charge the battery until the red status lamp turns off.
- If the status lamp blinks in red, reconnect the cable, or remove the battery and insert it again.
- If you charge the battery when the cable is overheated or the temperature is too high, the status lamp may blink in red. Charging will start when the battery cools down.
- Overcharging batteries may shorten battery life. After charging is finished, disconnect the cable from your camera.
- Do not bend or place heavy objects on the AC cable. Doing so may damage the cable.

Notes about charging with a computer connected

- Use only the provided USB cable.
- The battery may not charge when:
 - you use a USB hub
 - other USB devices are connected to your computer
 - you connect the cable to the port on the front side of your computer
 - the USB port of your computer does not support the power output standard (5 V, 500 mA)

Handling and disposing of batteries and chargers with care

- Never dispose of batteries in a fire. Follow all local regulations when you dispose of used batteries.
- Never place batteries or cameras on or in heating devices, such as microwave ovens, stoves, or radiators. Batteries may explode when they are overheated.



Personal injury or death can occur if the battery is handled carelessly or improperly. For your safety, follow these instructions for proper battery handling:

- The battery can ignite or explode if not handled properly. If you notice any deformities, cracks, or other abnormalities in the battery, immediately discontinue use of the battery and contact a service center.
- Use only authentic, manufacturer-recommended battery chargers and adapters and charge the battery only by the methods described in this user manual.
- Do not place the battery near heating devices or expose it to excessively warm environments, such as the inside of an enclosed car in the summertime.
- Do not place the battery in a microwave oven.
- Avoid storing or using the battery in hot, humid places, such as spas or shower enclosures.
- Do not rest the camera on flammable surfaces, such as bedding, carpets, or electric blankets for a prolonged period.
- When the camera is switched on, do not leave it in any confined space for a prolonged period.
- Do not allow battery terminals to come in contact with metallic objects, such as necklaces, coins, keys, or watches.
- Use only authentic, manufacturer-recommended, Lithium-ion replacement batteries.

- Do not disassemble or puncture the battery with any sharp object.
- Avoid exposing the battery to high pressure or crushing forces.
- Avoid exposing the battery to major impacts, such as dropping it from high places.
- Do not expose the battery to temperatures of 60 °C (140 °F) or above.
- Do not allow the battery to come in contact with moisture or liquids.
- Do not expose the battery to sources of excessive heat such as sunshine, fire or the like.

Disposal guidelines

- Dispose of the battery with care.
- Do not dispose of the battery in a fire.
- Disposal regulations may differ by country or region. Dispose of the battery in accordance with all local and federal regulations.

Guidelines for charging the battery

Charge the battery only by the method described in this user manual. The battery can ignite or explode if not charged properly.

Before contacting a service center

If you are having trouble with your camera, try these troubleshooting procedures before you contact a service center. If you have attempted the suggested remedy and are still having problems with your device, contact your local dealer or service center.

 When you leave your camera at a service center, be sure to also leave the other components that may have contributed to the malfunction, such as the memory card and battery.

Situation	Suggested remedies
Cannot turn on the camera	• Ensure that the battery is inserted. • Ensure that the battery is inserted correctly. (p. 19) • Charge the battery. • Charge the battery. • Your camera may be in Auto Power Off mode. (p. 125) • The camera may turn off to prevent the memory card from being damaged due to an impact. Turn on your camera again.
The power turns off suddenly	
The camera is losing battery power quickly	• The battery may lose power more quickly in low temperatures (below 0 °C/32 °F). Keep the battery warm by putting it into your pocket. • Using the flash or recording videos depletes the battery quickly. Recharge if needed. • Batteries are consumable parts that must be replaced over time. Get a new battery if the battery life is diminishing quickly.

Situation	Suggested remedies
Cannot capture photos	• There is no space on the memory card. Delete unnecessary files or insert a new card. • Format the memory card. • The memory card is defective. Get a new memory card. • Make sure that the camera is switched on. • Charge the battery. • Make sure that the battery is inserted correctly.
The camera freezes	Remove the battery and insert it again.
The camera heats up	While you use the camera, it may heat up. This is normal and should not affect your camera's lifespan or performance.
The flash does not work	• The flash option may be set to Off. (p. 57) • You cannot use the flash in some modes.

Situation	Suggested remedies
The flash fires unexpectedly	The flash may fire due to static electricity. The camera is not malfunctioning.
The date and time are incorrect	Set the date and time in the display settings. (p. 124)
The display or buttons do not work	Remove the battery, and then insert it again.
The camera display responds poorly	If you use your camera at very low temperatures, it may cause the camera screen to malfunction or discolor. For better performance of your camera screen, use your camera in moderate temperatures. • Turn off your camera, and then turn it on again. • Remove your memory card, and then insert it again. • Format your memory card. See "Cautions when using memory cards" for more detail. (p. 133)
The memory card has an error	
Cannot play back files	If you change the name of a file, your camera may not play the file (the name of the file should meet the DCF standard). If you encounter this situation, play back the files on your computer.

Situation	Suggested remedies
The photo is blurry	• Make sure that the focus option you set is suitable for close-up shots. (p. 60) • Make sure that the lens is clean. If not, clean the lens. (p. 129) • Make sure that the subject is within range of the flash. (p. 142)
The colors in the photo do not match the actual scene	An incorrect White Balance can create unrealistic color. Select the proper White Balance option to suit the light source. (p. 71)
The photo is too bright	Your photo is overexposed. • Turn off the flash. (p. 57) • Adjust the ISO sensitivity. (p. 59) • Adjust the exposure value. (p. 69)
The photo is too dark	Your photo is underexposed. • Turn on the flash. (p. 57) • Adjust the ISO sensitivity. (p. 59) • Adjust the exposure value. (p. 69)

Situation	Suggested remedies
The TV does not display your photos	• Make sure that the camera is correctly connected to the TV with the A/V cable. • Make sure that your memory card contains photos.
Your computer does not recognize your camera	• Make sure that the USB cable is connected correctly. • Make sure that your camera is switched on. • Make sure that you are using a supported operating system.
Your computer disconnects the camera while transferring files	The file transmission may be interrupted by static electricity. Disconnect the USB cable and connect it again.
Your computer cannot play videos	Videos may not play on some video player programs. To play video files captured with your camera, install and use the Intelli-studio program on your computer. (p. 93)

Situation	Suggested remedies
Intelli-studio is not functioning properly	• End Intelli-studio and restart the program. • You cannot use Intelli-studio on Macintosh computers. • Make sure that PC Software is set to On in the settings menu. (p. 123) • Depending on your computer's specifications and environment, the program may not launch automatically. In this case, click Start → All Programs → SAMSUNG → Intelli-studio → Intelli-studio on your computer.
Your TV or computer cannot display photos and videos that are stored on an SDXC memory card.	SDXC memory cards use the exFAT file system. Ensure that the external device is compatible with the exFAT file system before connecting the camera to the device.
Your computer does not recognize an SDXC memory card.	SDXC memory cards use the exFAT file system. To use SDXC memory cards on a Windows XP computer, download and update the exFAT file system driver from the Microsoft website.

Camera specifications

Image sensor	
Type	1/2.3" (Approximately 7.76 mm) CCD
Effective pixels	Approximately 14.2 mega-pixels
Total pixels	Approximately 16.4 mega-pixels

Lens	
Focal length	Schneider-KREUZNACH Lens f = 4.0–72.0 mm (35 mm film equivalent: 24–432 mm)
F-stop range	F3.2 (W)–F5.8 (T)
Zoom	- Still image mode: 1.0–18.0X (Optical zoom X Digital zoom: 90.0X, Optical zoom X Intelli zoom: 36.0X) - Playback mode: 1.0–14.4X (depending on image size)

Display	
Type	TFT LCD
Feature	3.0" (7.62 cm) 460K

Focusing	
Type	TTL auto focus (Center AF, Multi AF, Selection AF, Tracking AF, Face Detection AF, Smart Face Recognition AF), Manual Focus

Range

	Wide (W)	Tele (T)
Normal (AF)	80 cm-infinity	350 cm-infinity
Macro	5-80 cm	180-350 cm
Auto Macro	5 cm-infinity	180 cm-infinity
Manual Focus	5 cm-infinity	180 cm-infinity

Shutter speed

- Auto: 1/8-1/2,000 sec.
- Program: 1-1/2,000 sec.
- Manual: 16-1/2,000 sec.
- Night: 8-1/2,000 sec.

Exposure

Control	Program AE, Aperture Priority AE, Shutter Priority AE, Manual Exposure
Metering	Multi, Spot, Center-weighted, Face Detection
Compensation	±2EV (1/3 EV Step)
ISO equivalent	Auto, ISO 80, ISO 100, ISO 200, ISO 400, ISO 800, ISO 1600, ISO 3200

Flash	
Mode	Auto, Red-eye, Fill in, Slow Sync, Off, Red-eye Fix
Range	- Wide: 0.3–3.5 m (ISO Auto) - Tele: 0.5–1.9 m (ISO Auto)
Recharging time	Approximately 4 sec.
Shake reduction	
Optical Image Stabilization (OIS)	
Effect	
Photo Shooting mode	- Photo Filter (Smart Filter): Miniature, Vignetting, Ink Painting, Oil Painting, Cartoon, Cross Filter, Sketch, Soft Focus, Fish-eye, Old Film, Half Tone Dot, Classic, Retro, Zooming Shot - Image Adjust: Sharpness, Contrast, Saturation
Video Shooting mode	Movie Filter (Smart Filter): Miniature, Vignetting, Half Tone Dot, Sketch, Fish-eye, Classic, Retro, Palette Effect 1, Palette Effect 2, Palette Effect 3, Palette Effect 4
White Balance	
Auto WB, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom Set, Color Temp.	

Date Imprinting	
Date & Time, Date, Off	
Shooting	
Photos	- Modes: Smart Auto (Portrait, Night Portrait, Backlight Portrait, Night, Backlight, Landscape, White, Natural Green, Blue Sky, Sunset, Macro, Macro text, Macro Color, Tripod, Action, Fireworks), Program, Aperture Priority, Shutter Priority, Manual, Scene (Beauty Shot, Night, Landscape, Text, Sunset, Dawn, Backlight, Beach & Snow), Magic Plus (Live Panorama, Magic Frame, Split Shot, Picture in Picture, Artistic Brush, Photo Filter) - Burst: Single, Continuous, Motion Capture, AEB - Timer: Off, 10 Sec, 2 Sec, Double (10 Sec, 2 Sec)
	- Modes: Smart Scene Detection (Landscape, Blue Sky, Natural Green, Sunset), Movie, Magic Plus (Picture in Picture, Movie Filter) - Format: MP4 (H.264) (Max recording time: 20 min) - Size: 1280 X 720, 640 X 480, 320 X 240, For Sharing (WB150F/WB152F only) - Frame Rate: 30fps, 15fps - Sound Alive: Sound Alive On, Sound Alive Off, Mute - OIS: On, Off - Video editing (embedded): Pause during recording
Videos	

Playback	
	- Type: Single image, Thumbnails, Multi Slide Show with Music and Effect, Movie clip, Smart Album* * Smart Album category: All, Date, Face List, File Type
Photos	- Edit: Resize, Rotate, Image Adjust, Smart Filter, Crop - Effect: Image Adjust (Brightness, Contrast, Saturation, ACB, Face Retouch, Red-eye Fix), Smart Filter (Normal, Miniature, Vignetting, Ink Painting, Oil Painting, Cartoon, Cross Filter, Sketch, Soft Focus, Fish-eye, Old Film, Half Tone Dot, Classic, Retro, Zooming Shot)
Videos	Edit: Still image capture, Time trimming
Storage	
Media	- Internal memory: Approximately 18 MB - External memory (Optional): SD card (1–2 GB guaranteed), SDHC card (up to 32 GB guaranteed), SDXC card (up to 64 GB guaranteed) Internal memory capacity may not match these specifications.
File format	- Still Image: JPEG (DCF), EXIF 2.2.1, DPOF 1.1, PictBridge 1.0 - Movie Clip: MP4 (Video: MPEG-4.AVC/H.264, Audio: AAC)

Image size

For 1 GB SD: Number of photos

		Super Fine	Fine	Normal
	4320 X 3240	144	259	381
	4320 X 2880	162	287	423
	4320 X 2432	190	343	498
	3648 X 2736	201	353	519
	2832 X 2832	246	435	630
	2592 X 1944	386	686	950
	1984 X 1488	624	1,065	1,404
	1920 X 1080	846	1,373	1,993
	1024 X 768	1,817	2,809	3,433

These figures are measured under Samsung's standard conditions. Your results may vary depending on the shooting conditions and camera settings.

Wireless network (WB150F/WB152F only)

Social Sharing, Email, MobileLink, Remote Viewfinder, SkyDrive, Auto Backup, TV Link, Authentication Browser, Wi-Fi Direct

Interface

Digital output connector	USB 2.0
Audio input/output	Internal speaker (Mono), Microphone (Mono)
Video output	AV: NTSC, PAL (selectable)
DC power input connector	5 V

Power source

Rechargeable battery	Lithium-ion battery (SLB-10A, 1,030 mAh)
Connector type	Micro USB (5 pin)

The power source may differ depending on your region.

Dimensions (W X H X D)

106.5 X 59.9 X 23.4 mm (4.19 X 2.36 X 0.92 in.) (without protrusions)

Weight

- WB150/WB151/WB152: 187.9 g (6.628 oz.) (without battery and memory card)
- WB150F/WB152F: 188.2 g (6.639 oz.) (without battery and memory card)

Operating Temperature

0–40 °C (32–104 °F)

Operating Humidity

5–85 %

Software

Intelli-studio

Specifications may change without notice to improve performance.

Glossary

ACB (Auto Contrast Balance)

This feature automatically improves the contrast of your images when the subject is backlit or when there is a high contrast between your subject and the background.

AEB (Auto Exposure Bracket)

This feature automatically captures several images at different exposures to help you capture a properly-exposed image.

AF (Auto Focus)

A system that automatically focuses the camera lens on the subject. Your camera uses the contrast to focus automatically.

Aperture

The aperture controls the amount of light that reaches the camera's sensor.

Camera shake (Blur)

If the camera is moved while the shutter is open, the entire image may appear blurred. This occurs more often when the shutter speed is slow. Prevent camera shake by raising the sensitivity, using the flash, or using a faster shutter speed. Alternately, use a tripod, the DIS or OIS function to stabilize the camera.

Composition

Composition in photography means arranging objects in a photo. Usually, abiding by the rule of thirds leads to a good composition.

DCF (Design rule for Camera File system)

A specification to define a file format and file system for digital cameras created by the Japan Electronics and Information Technology Industries Association (JEITA).

Depth of field

The distance between the nearest and farthest points that can be acceptably focused in a photograph. Depth of field varies with lens aperture, focal length, and distance from the camera to the subject. Selecting a smaller aperture, for example, will increase the depth of field and blur the background of a composition.

Digital zoom

A feature that artificially increases the amount of zoom available with a zoom lens (Optical zoom). When using the Digital zoom, the image quality will deteriorate as the magnification increases.

DPOF (Digital Print Order Format)

A format for writing printing information, such as selected images and number of prints, on a memory card. DPOF-compatible printers, sometimes available at photo shops, can read the information from the card for convenient printing.

EV (Exposure Value)

All the combinations of the camera's shutter speed and lens aperture that result in the same exposure.

EV Compensation

This feature allows you to quickly adjust the exposure value measured by the camera, in limited increments, to improve the exposure of your photos. Set the EV compensation to -1.0 EV to adjust the value one step darker and 1.0 EV to one step brighter.

Exif (Exchangeable Image File Format)

A specification to define an image file format for digital cameras created by the Japan Electronic Industries Development Association (JEIDA).

Exposure

The amount of light allowed to reach the camera's sensor. Exposure is controlled by a combination of the shutter speed, the aperture value, and ISO sensitivity.

Flash

A speed light that helps to create adequate exposure in low-light conditions.

Focal length

The distance from the middle of the lens to its focal point (in millimeters). Longer focal lengths result in narrower angles of view and the subject is magnified. Shorter focal lengths result in wider angles of view.

Histogram

A graphical representation of the brightness of an image. The horizontal axis represents the brightness and the vertical axis represents the number of pixels. High points at the left (too dark) and right (too bright) on the histogram indicate a photo that is improperly exposed.

H.264/MPEG-4

A high-compression video format established by international standard organizations ISO-IEC and ITU-T and developed by the Joint Video Team (JVT). This codec is capable of providing good video quality at low bit rates.

Image sensor

The physical part of a digital camera that contains a photosite for each pixel in the image. Each photosite records the brightness of the light that strikes it during an exposure. Common sensor types are CCD (Charge-coupled Device) and CMOS (Complementary Metal Oxide Semiconductor).

ISO sensitivity

The sensitivity of the camera to light, based on the equivalent film speed used in a film camera. At higher ISO sensitivity settings, the camera uses a higher shutter speed, which can reduce blur caused by camera shake and low light. However, images with high sensitivity are more susceptible to noise.

JPEG (Joint Photographic Experts Group)

A lossy method of compression for digital images. JPEG images are compressed to reduce their overall file size with minimal deterioration of the image resolution.

LCD (Liquid Crystal Display)

A visual display commonly used in consumer electronics. This display needs a separate backlight, such as CCFL or LED, to reproduce colors.

Macro

This feature allows you to capture close-up photos of very small objects. When using the macro feature, the camera can maintain a sharp focus on small objects at a near life-size ratio (1:1).

Metering

The metering refers to the way in which the camera measures the quantity of light to set the exposure.

MJPEG (Motion JPEG)

A video format which is compressed as a JPEG image.

Noise

Misinterpreted pixels in a digital image that may appear as misplaced or random, bright pixels. Noise usually occurs when photos are shot with a high sensitivity or when a sensitivity is automatically set in a dark place.

OIS (Optical Image Stabilization)

This feature compensates in real-time for shaking and vibrating while shooting. There is no image degradation compared to Digital Image Stabilization feature.

Optical zoom

This is a general zoom which can enlarge images with a lens and does not deteriorate quality of images.

Quality

An expression of the rate of compression used in a digital image. Higher quality images have a lower rate of compression, which usually results in a larger file size.

Resolution

The number of pixels present in a digital image. High resolution images contain more pixels and typically show more detail than low resolution images.

Shutter speed

Shutter speed refers to the amount of time it takes to open and close the shutter, and it is an important factor in the brightness of a photo, as it controls the amount of light which passes through the aperture before it reaches the image sensor. A fast shutter speed allows less time to let light in and the photo becomes darker and more easily freezes subjects in motion.

Vignetting

A reduction of an image's brightness or saturation at the periphery (outer edges) compared to the center of the image. Vignetting can draw interest to subjects positioned in the center of an image.

White balance (color balance)

An adjustment of the intensities of colors (typically the primary colors red, green, and blue), in an image. The goal of adjusting the white balance, or color balance, is to correctly render the colors in an image.



**Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)**

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



PlanetFirst represents Samsung Electronics' commitment to sustainable development and social responsibility through eco-driven business and management activities.



Correct disposal of batteries in this product

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To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

This Class [B] digital apparatus complies with Canadian ICES-003.

Dispose unwanted electronics through an approved recycler.
To find the nearest recycling location, go to our website:
www.samsung.com/recyclingdirect Or call, (877) 278 - 0799

FCC notice

Caution:

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorientate, or relocate, the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

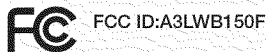
• Declaration of Conformity

Trade Name	: Samsung Electronics America, Inc.
Model No.	: Samsung WB150/WB150F/WB151/ WB152/WB152F
Responsible Party	: Samsung Electronics America, Inc.
Address	: 85 Challenger Road, Ridgefield Park, NJ 07660
Telephone No.	: 1-800-SAMSUNG (726-7864)

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF exposure statements:

This device is for handheld operation only. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION

**RISK OF EXPLOSION IF BATTERY IS REPLACED BY
AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS.**

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution:

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.

IC: 649E-WB150F

This equipment may be operated in all EU countries.
In France, this equipment may only be used indoors.

Complies with
IDA Standards
DA100790

Approved by PTA,
year 2011



NTC

Type Approved
No. ESD-1105767C



TA-2011/1257
APPROVED

NO-L-14041/01/2011/ETA/2011
1577/2011/WRLO

Declaration of Conformity

Product details

For the following

Product : DIGITAL CAMERA

Model(s) : WB150F, WB152F

Declaration & Applicable standards

We hereby declare that the product(s) above is(are) in compliance with the essential requirements and other provisions of the R&TTE Directive (1999/5/EC), the Low Voltage Directive (2006/95/EC) and the Electromagnetic Compatibility Directive (2004/108/EC) by application of:

EN 60950-1:2006+A1:2010	EN 55024:1998+A1:2001+A2:2003
EN 55022:2006+A1 :2007	EN 61000-3-2:2006 +A1:2009 +A2:2009
EN 61000-3-3:2008	EN 300 328 v1.7.1
EN 301 489-1 v1.8.1	EN 301 489-17 V2.1.1
EN62311 :2008	

and the Eco-Design Directive (2009/125/EC) implemented by Regulations (EC) No 278/2009 for external power supplies.

Representative in the EU

Samsung Electronics Euro QA Lab. (YEAR TO BEGIN AFFIXING CE MARKING 2011)
Blackbushe Business Park
Saxony Way, Yateley, Hampshire
GU46 6GG, UK



21 October, 2011

(Place and date of issue)

Joong-Hoon Choi / Lab. Manager

(Name and signature of authorized person)

* This is not the address of Samsung Service Centre. For the address or the phone number of Samsung Service Centre, see the warranty card or contact the retailer where you purchased your product.

Declaration sentence in official languages

Nation	Declaration
Cesky	Samsung Electronics tímto prohlašuje, že tento digitální fotoaparát je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk	Samsung Electronics erklærer herved, at digitale kameraer overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch	Hiermit erklärt Samsung Electronic, dass sich die Digitalkamera in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Eesti	Käesolevaga kinnitab Samsung Electronics digitaalkamera vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, Samsung Electronics declares that this digital camera is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español	Por medio de la presente Samsung Electronics declara que la cámara digital cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Ελληνική	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ η Samsung Electronics ΔΗΛΩΝΕΙ ΟΤΙ η ψηφιακή φωτογραφική μηχανή ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Français	Par la présente Samsung Electronic déclare que l'appareil photo numérique est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Italiano	Con la presente Samsung Electronics dichiara che questa fotocamera digitale è conforme ai requisiti essenziali e alle altre disposizioni stabilite dalla Direttiva 1999/5/CE.
Latviski	Ar šo Samsung Electronics deklarē, ka digitālā kamera atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių	Šiuo Samsung Electronics deklaruoja, kad šis skaitmeninis fotoaparatas, atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands	Hierbij verklaart Samsung Electronics dat de digitale camera in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Nation	Declaration
Malti	Hawnhekk, Samsung Electronics, tiddikjara li din il-kamera digitali hi konformi mar-rekwiziti essenzjali u ma' dispożizzjonijiet rilevanti ohrajn ta' Direttiva 1999/5/KE.
Magyar	A Samsung Electronics kijelenti, hogy ez a digitális fényképezőgép megfelel az 1999/5/EK irányelv alapvető követelményeinek és egyéb vonatkozó előírásainak.
Polski	Niniejszym firma Samsung Electronics oświadcza, że ten aparat cyfrowy jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/WE.
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Slovensko	Samsung Electronics izjavlja, da je ta digitalni fotoaparat v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky	Samsung Electronics týmto vyhlasuje, že tento digitálny fotoaparát spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
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Norsk	Samsung Electronics erklærer herved at dette digitalkameraet er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.
Türkiye	Bu belge ile, Samsung Electronics bu dijital kameranın 1999/5/EC Yönetmeliğinin temel gerekliliklerine ve ilgili hükümlerine uygun olduğunu beyan eder.
Íslenska	Hér með lýsir Samsung Electronics því yfir að þessi stafræna myndavél sé í samræmi við grunnkröfur og önnur ákvæði tilskipunar 1999/5/EB.

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